

10/539241

290.0004.seq.list.45.txt  
SEQUENCE LISTING

JC17 Rec'd PCT/PTO 16 JUN 2005

<110> PURDUE RESEARCH FOUNDATION

<120> pRNA CHIMERA

<130> 290-0004-0130

<140> PCT/US03/039950

<141> 2003-12-16

<150> 10/373,612

<151> 2003-02-24

<150> 60/433,697

<151> 2002-12-16

<160> 45

<170> PatentIn Ver. 3.3

<210> 1

<211> 120

<212> RNA

<213> Bacteriophage phi-29

<400> 1

ucaaugguac gguacuucca uugucaugug uauguugggg auuaaaacccu gauugaguuc 60  
agcccacaua cuuuguugau ugguugucaa ucauggcaaa agugcacgcu acuuugauaa 120

<210> 2

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA template

<400> 2

ttcctaaagg aatgg

15

<210> 3

<211> 168

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic pRNA chimera

<400> 3

guugauuggu ugucaaucau ggcaaaagug cacgcuacuu ugaaaaacaa auucuaaaac 60  
ugaugagucc gugaggacga aagcuguaac acaaaaaucaa ugguacggua cuuccauugu 120  
cauguguauug ugggggauua aaccugauu gaguucagcc cacauaca 168

<210> 4

<211> 24

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic portion of U7  
snRNA substrate

<400> 4  
guguuacagc ucuuuuagaa uuug 24

<210> 5  
<211> 46  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic anti-12-LOX  
ribozyme

<400> 5  
acgcgguugu accugaugag uccgugagga cgaaacccgg agaaga 46

<210> 6  
<211> 25  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic RNA  
substrate

<400> 6  
ucuucuccgg gucguacaac cgcg 25

<210> 7  
<211> 55  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (25)..(32)  
<223> any nucleotide and this region may be 4-8 nucleotides,  
preferably 4 or 5 nucleotides

<220>  
<223> Description of Artificial Sequence: Synthetic pRNA  
chimera

<400> 7  
uugucaugug uauguugggg auuannnnnn nncugauuga guucagcca cauac 55

<210> 8  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA loop

<400> 8  
taatacgact cactata 17

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<210> 9
<211> 94
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic U7 template

<400> 9
gggaaagcuu auaguguuac agcucuuuuu gaauuugucu agcagguuuu cugacuucgg 60
ucggaaaacg ccuaacguug caugccugca gguc 94

<210> 10
<211> 47
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RzU7 template

<400> 10
ggcaaaauucu aaaacugaug aguccgugag gacgaaagcu guaacac 47

<210> 11
<211> 68
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted SF5
      pRNA chimera

<400> 11
gugagacauc guauuuacua uaauguaugu gugucggguu guuuucggau ugaguuccgc 60
cgacagca 68

<210> 12
<211> 72
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
      B103 pRNA chimera

<400> 12
gacaaggugc aacacuuccu auaguauggu gcgugauugg gguauauccu gauugaguuc 60
agccacacg cc 72

<210> 13
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
      phi29/PZA pRNA chimera

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<400> 13  
 ucaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60  
 agcccacaua c 71

<210> 14  
 <211> 72  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic permuted  
 M2/NF pRNA chimera

<400> 14  
 gacaaggugc aacacuuccu auaguauggc acaugauugg gguauauccu gauugaguuc 60  
 agcccacaug uc 72

<210> 15  
 <211> 68  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic permuted  
 GA1 pRNA chimera

<400> 15  
 uaaggcauug agguuuaaaau auauaggcug ugcaacgggg auccuacugu aaaaaguacc 60  
 guugacag 68

<210> 16  
 <211> 75  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic permuted  
 aptamer pRNA

<400> 16  
 ggaaugguac gguacuucca uugucaugug uagggguuggg aagaaacugu ggcacuucgg 60  
 ugccagcaac ccuac 75

<210> 17  
 <211> 188  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic ribozyme  
 pRNA-RzA transcript

<400> 17  
 gcuaguucua gaguugauug guugucaauc auggcaaaag ugcacgcuac uuugcaaaac 60  
 aaauucuuua cugaugaguc cgugaggacg aaacggguca aaagcaaugg uacgguacu 120  
 ccauugucau guguauguug gggauuaaac ccugauugag uucagcccac auacgguacc 180  
 ucgacguc 188

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<210> 18
<211> 66
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic ribozyme
      RzA transcript

<400> 18
gcuaguucua gacaaaauucu uuacugauga guccgugagg acgaaacggg ucgguaccuc 60
gacguc                                         66

<210> 19
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
      overhang oligonucleotide

<400> 19
aagccgaauu                                         10

<210> 20
<211> 59
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
      overhang oligonucleotide

<400> 20
aagccgaauu ccagcacacu ggcggccguu acuaguggau ccgagcucgg uaccaagcu 59

<210> 21
<211> 54
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
      overhang oligonucleotide

<400> 21
ccuuuuacau gcgacacaga cgaagcgcu aaacguggga uucugugucg uuuu 54

<210> 22
<211> 120
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
      overhang oligonucleotide

<400> 22

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ucaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60  
agcccacaua cuuuguugau ugguugucac ucauggcaaa agugcacgcu acuuugauaa 120

<210> 23

<211> 40

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic hammerhead ribozyme

<400> 23

caaaauuuu acugaugagu ccgugaggac gaaacggguc 40

<210> 24

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic HBV polyA target

<400> 24

gacccguaua aagaauuug 19

<210> 25

<211> 162

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic ribozyme pRNA-RZA

<400> 25

guugauuggu ugucaaucau ggcaaaagug cacgcuacuu ugaaaaacaa auucuuuacu 60  
gaugaguccg ugaggacgaa acgggucaaa aucaauggua cgguacuucc auugucaugu 120  
guauguuggg gauuaaaccc ugauugaguu cagcccacau ac 162

<210> 26

<211> 119

<212> RNA

<213> Bacteriophage phi-29

<400> 26

gcaaugguac gguacuucca uugucaugug uauguugggg auuaacgccu gauugaguuc 60  
agcccacaua cuuuguugau uguccgucaa ucauggcaaa agugccgcua cuuugcuaa 119

<210> 27

<211> 117

<212> RNA

<213> Bacteriophage phi-29

<400> 27

ucaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60  
agcccacaua cuuuguugau ugguugucac ucauggcaaa agugcacgcu acuuuga 117

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<210> 28
<211> 44
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
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<400> 28
gggagcguaa aacacucuug cauuaaaaau augacugauu ucgc
44

<210> 29
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
      B103 pRNA chimera

<400> 29
ggggauugau agcccucuua cuaaaaguga uuguuucuuu guc
43

<210> 30
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
      phi29/PZA pRNA chimera

<400> 30
guugauuggu ugucaaucau ggcaaaagug cacgcuacuu uga
43

<210> 31
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
      M2/NF pRNA chimera

<400> 31
ggggauugau aaccucuua cuaaaaguga uuguuucuuu guc
43

<210> 32
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
      GAL pRNA chimera

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<400> 32  
 uguugcgugg uagcaauacu auauauacuc ucucucguuu ua 42

<210> 33  
 <211> 43  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic permuted  
 aptamer pRNA

<400> 33  
 guugauuggu ugucaaucau ggcaaaagug cacgcuacuu ucc 43

<210> 34  
 <211> 71  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic circularly  
 permuted pRNA

<400> 34  
 gcaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60  
 agcccacaua c 71

<210> 35  
 <211> 43  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic circularly  
 permuted pRNA

<400> 35  
 guugauuggu ugucaaucau ggcaaaagug cacgcuacuu ugc 43

<210> 36  
 <211> 157  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <221> modified base  
 <222> (29)..(31)  
 <223> a, c, t, g, unknown or other

<220>  
 <221> modified base  
 <222> (32)..(131)  
 <223> any nucleotide and this region may be 25-100  
 nucleotides

<220>  
 <221> modified base  
 <222> (132)..(134)



<223> a, c, t, g, unknown or other

<220>

<223> Description of Artificial Sequence: Synthetic circularly permuted pRNA

<400> 36

guacuguuac cuucauggca ugguaacgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnncguuuc aucgcacgug aaaacgg 157

<210> 37

<211> 119

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic cpRNA transcript

<400> 37

ggaaugguac gguacuccau ugucaugugu auguugggga uaaaaccug auugaguuca 60  
 gccacauac uuuguugauu gguugucaau cauggcaaag ugcacgcuac uuuccuaaa 119

<210> 38

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA template

<400> 38

ttccttaata cgactcacta taggaatgg 29

<210> 39

<211> 133

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic cpRNA transcript

<400> 39

ggaaugguac gguacuccau ugucaugugu auguugggga uaaaaccug auugaguuca 60  
 gccacauac uuuguugauu gguugucaau cauggcaaag ugcacgcuac uuuccuaau 120  
 acgacucacu aua 133

<210> 40

<211> 120

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic phi29 viral particle

<400> 40

290.0004.seq.list.45.txt

ucaaugguac gguacuucca uugucaugug uauguugggg auuaggaccu gauugaguuc 60  
agccacaua cuuuguugau ugcgugucaa ucauggcaaa agugcacgcu acuuugauaa 120

<210> 41  
<211> 120  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic chimeric  
pRNA

<400> 41  
guugauugcg ugucaaucau ggcuuuugag aagcuucuga ugaguccgug aggacgaaau 60  
gagucuguuu ugucaugugu auguugggga uuaggaccug auugaguuca gcccacauac 120

<210> 42  
<211> 108  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic chimeric  
pRNA

<400> 42  
guugauuuugu cguaaucau ggccucagag acagagcaga aacgacagu caagccgaag 60  
ucauguguau guugggggaau aacgccugau ugaguucagc ccacauac 108

<210> 43  
<211> 72  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic chimeric  
pRNA

<400> 43  
gucaugugua uguugggggaug uagacacuga uugaguucag cccacauacg uugauugucc 60  
gucaaucaug gc 72

<210> 44  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic chimeric  
pRNA

<400> 44  
cagacucauc aagcuucuc 19

<210> 45  
<211> 28  
<212> RNA  
<213> Artificial Sequence

<220>  
<221> modified\_base  
<222> (7)..(14)  
<223> any nucleotide and this region may be 4-8 nucleotides,  
preferably 4 or 5 nucleotides

<220>  
<223> Description of Artificial Sequence: Synthetic pRNA  
chimera

<400> 45  
guugaunnnn nnnngucaa cauggcaa

28